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JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11) Publication number 05136323 A

(43) Date of publication of application: 01.06.93

(51) Int. Cl.

H01L 23/50

(21) Application number: 03297304

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(22) Date of filing: 13.11.91

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## (54) INTEGRATED CIRCUIT DEVICE

## (57) Abstract:

**PURPOSE:** To relax the limits to the integration density and to the number of signal pins of a single LSI chip when the LSI chip is mounted on an integrated circuit package and to relax the influence of a noise caused at the LSI chip and at leads.

**CONSTITUTION:** A plurality of LSI chips 5 are mounted at the upper part and the lower part so as to sandwich a support plate 9 or a support plate 9 which can be grounded. In such an integrated circuit structure, the LSI chips at the upper part and the lower part are connected to leads or a lead frame 1 by means of bonding wires 2. When the two chips at the upper part and the lower part are die-bonded, they are connected to the leads or the lead frame 1. The leads have a structure which is divided into the upper part and the lower part or into the right and the left so as to sandwich the support plate 9 which can be grounded; they are connected to the individual chips. Thereby, the chips can be integrated highly and mounted at high density, and their noise can be reduced.

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